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	Application No.	Applicant(s)	
	Application No.	Applicant(s)	
Notice of Allowability	10/810,683	DADASHEV, OLEG	
	Examiner	Art Unit	
	ANH PHUNG	2824	
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT F of the Office or upon petition by the applicant. See 37 CFR 1.31	S (OR REMAINS) CLOSED i) or other appropriate comr RIGHTS. This application is	in this application. If not included nunication will be mailed in due course	
1. $\boxtimes$ This communication is responsive to <u>the Election received</u>	d on April 17, 2006.		
2. The allowed claim(s) is/are <u>1-17</u> .			
3. ☐ Acknowledgment is made of a claim for foreign priority u  a) ☐ All b) ☐ Some* c) ☐ None of the:		) or (f).	
1. Certified copies of the priority documents hav		N-	
2. Certified copies of the priority documents hav	, ,	<del></del> :	
3. Copies of the certified copies of the priority do	ocuments have been receiv	ed in this national stage application fro	om the
International Bureau (PCT Rule 17.2(a)).			
* Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDON! THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		le a reply complying with the requirem	ents
4. A SUBSTITUTE OATH OR DECLARATION must be subminformal patent application (PTO-152) which give			∃ OF
5. CORRECTED DRAWINGS (as "replacement sheets") mu	ıst be submitted.		
(a) ☐ including changes required by the Notice of Draftsper	rson's Patent Drawing Revi	ew ( PTO-948) attached	
1)  hereto or 2)  to Paper No./Mail Date			
(b) ☐ including changes required by the attached Examiner Paper No./Mail Date	's Amendment / Comment	or in the Office action of	
Identifying indicia such as the application number (see 37 CFR each sheet. Replacement sheet(s) should be labeled as such in			of
<ol> <li>DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT</li> </ol>	osit of BIOLOGICAL MATERIAL FOR THE DEPOSIT OF B	FERIAL must be submitted. Note the IOLOGICAL MATERIAL.	ıe
Attachment(s)	5 🗆 N. W	(DTO 450)	
1. Notice of References Cited (PTO-892)		Informal Patent Application (PTO-152)	ı
2. Notice of Draftperson's Patent Drawing Review (PTO-948)		Summary (PTO-413), b./Mail Date	
3. Information Disclosure Statements (PTO-1449 or PTO/SB/Paper No./Mail Date 11/24/04		s Amendment/Comment	
Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. 🛭 Examiner	s Statement of Reasons for Allowance	•
T. — Islagian matama	9. ⊠ Other <u>Sea</u>	nrch History.	
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( lune of hune)			
PRIMARY EXAMINER			

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## **Detailed Office Action**

This Office Action is responsive to the Election received on April 17, 2006, claims
 1-17 are pending in the application.

## Information Disclosure Statement

This office acknowledges receipt of the following items from the Applicant:
 Information Disclosure Statement (IDS) filed on November 24, 2004.
 Information disclosed and listed on PTO 1449 was considered.

## Examiner's Statement of Reasons for Allowance

3. Claims **1-17** are allowed.

Ma et al. (US 6,990,001), Pasotti et al. (US 6,400,607), Uekubo (US 6,163,484), Kim (US 6,128,227) and Chang et al. (US 219,290) disclose an apparatus for sensing a memory cell having sense amplifier with a reference unit similar to that of the present application, but fail to teach:

"generating an analog voltage Vddr proportional to a current of a selected array cell of said memory array; and upon receiving a timing signal based on a comparison of an output of a reference cell, comparing said analog voltage Vddr with a reference constant voltages Vcomp to generate an output signal" as claimed in the independent claim 1, dependent claims 2-4 are therefore allowed because of their dependency on claim 1; or

"transforming a signal from a memory cell to a time delay based on a comparison with a constant voltage; and sensing said memory cell by comparing said time delay to

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a time delay of a reference cell" as claimed in the independent claim 5, dependent claims 6-9 are therefore allowed because of their dependency on claim 5; or

"a drain driver adapted to generate an analog voltage Vddr proportional to a current of a selected array cell of said memory array; and a comparator adapted to compare said analog voltage Vddr with a constant reference Vcomp to generate an output signal upon receiving a timing signal based on a comparison of an output of a reference cell" as claimed in the independent claim 10, dependent claims 11-13 are therefore allowed because of their dependency on claim 10; or

"a driver adapted to transform a signal from a memory cell to a time delay based on a comparison with a constant voltage; and a comparator adapted to compare said time delay to a time delay of a reference cell" as claimed in the independent claim 14, dependent claims 15-17 are therefore allowed because of their dependency on claim 14.

Any comments considered necessary by applicants must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comment on Statement of Reasons for Allowance".

## Conclusion

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to **ANH PHUNG** whose telephone number is **(571) 272-1883**. The examiner can normally be reached on Monday-Friday from 8:00 AM to 4:30 PM.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, RICHARD ELMS, can be reached on (571) 272-1869. The fax phone number for the organization where this application or proceeding is assigned is (571) **273-8700**.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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**AKP**